**Installation Manual**

**Introduction**
- Read this manual before installation and connection. Read the "Setting Manual" and "Operation Manual" included on the DVD-ROM that comes with the Master Station (IX-MV).
- Configure the system settings according to the "Setting Manual" after completing the installation and connection. The system will not function unless it has been properly configured.
- After installation, explain to the customer how to use the device, and be sure to provide the accompanying DVD-ROM that came with the Master Station (IX-MV).

**Important**
- Perform the installation and connection only after fully understanding this device and the manual. Illustrations used in this manual may be different from the actual ones.

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**Example of System Configuration**

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**Part Names and Accessories**

**IX-DA (Video Door Station)**
- Call indicator (orange)
- Camera
- Communication indicator (green)
- Microphone
- Speaker
- LED for right illumination
- LED for left illumination
- Call button
- Status indicator (red)
- Drain holes (4)

**IX-BA (Audio Only Door Station)**
- Call indicator (orange)
- Communication indicator (green)
- Microphone
- Speaker
- LED for right illumination
- LED for left illumination
- Call button
- Status indicator (red)
- Drain holes (4)

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**Number of station registrations in address book**

<table>
<thead>
<tr>
<th>Product number</th>
<th>Product name</th>
<th>Number of station registrations in address book</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX-MV</td>
<td>Master Station</td>
<td>500 stations</td>
</tr>
<tr>
<td>IX-BA, IX-SS, IX-SS-RA*1, IX-DA, IX-BA (Audio Only Door Station)</td>
<td>Audio Only Door Station</td>
<td>20 stations</td>
</tr>
</tbody>
</table>

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**Indicators**

- Normally on: 
- Standby/Upgrading: 
- Fault: 
- Long interval flashing: 
- Short interval flashing: 
- Long irregular flashing: 
- Short irregular flashing: 
- Communication failure: 
- Device error: 
- Firmware version: 

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**Precautions**

**Warning**
1. Negligence could result in death or serious injury.
   - Voltage is applied to parts within the equipment. Do not touch any parts that are not associated with the installation, setting, or connection. Electric shock could result.
   - Do not dismantle or alter the unit. Fire or electric shock could result.
   - Keep the unit away from water or any other liquid. Fire or electric shock could result.
   - The unit will not operate properly if it is dropped. Handle with care.
   - Do not connect any terminal on the unit to an AC power line. Fire or electric shock could result.
   - Do not put any metal or flammable material into the unit through the openings. Fire, electric shock, or unit trouble could result.

**Caution**
1. Negligence could result in injury to people or damage to property.
   - Do not install or make any wire terminations while power supply is plugged in. It can cause electrical shock or damage to the unit.
   - Do not touch any parts that are not associated with the installation, setting, or connection. Electric shock could result.
   - Do not install the unit in any of the following locations: Fire, electric shock, or unit trouble could result.
   - Do not install the unit near any of the following: Fire, electric shock, or unit trouble could result.
     - Places subject to dust, oil, chemical, and humidity extremes, such as bathrooms, cellars, greenhouses, etc.
     - Places where the temperature is quite low, such as inside a refrigerated area or in front of an air conditioner.
     - Places subject to steam or smoke (near heating or cooking surfaces).
     - Where noise generating devices such as dimmer switches or inverter electrical appliances are close by.
     - Locations subject to extremely powerful electric fields.
   - When mounting the unit on a wall, install it in a convenient location, but not where it could be jammed or saturated with moisture.
   - Do not place or install the unit in the locations subject to frost, snow or rain. If the unit fails, injury to people or damage to the unit could result.
   - Do not put any wires between movable objects (doors, windows, etc.). It may cause malfunction.
   - Do not put any objects on the unit or cover the unit with cloth, etc. Fire or unit trouble could result.
   - Be sure to perform a call test or check the chime volume with the handset on the hook. If you operate the hook switch with the handset on your ear, a sudden loud sound may cause damage to your ear.
   - Keep the unit away from water or any other liquid. Fire or electric shock could result.
   - Do not connect any terminal on the unit to an AC power line. Fire or electric shock could result.
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**Notice**

- Aiphone assumes no responsibility for damages as a result of delayed or unsatisfactory services, which were due to failures in network equipment, communication services by Internet and cellular phone companies, line interruptions, communication failures, or inaccuracies or omissions in the transmission unit.
- We will under no circumstances be liable for damage that occurs due to the inability to communicate due to malfunctions, problems, or operational errors in this product.
- If personal information leaked by eavesdropping or unauthorized access in the communication paths over the internet, please be aware that Aiphone assumes no responsibility for the damages.
- We will under no circumstances be liable for any damages or losses resulting from this product’s contents or specifications.
- This manual was created by Aiphone Co., Ltd. All rights reserved. Copying a part of or this entire manual without prior permission from Aiphone Co., Ltd. is strictly forbidden.
- Please note that product specifications may be changed for the sake of improvement without prior notice.
- Please be aware that it is the customer’s responsibility to ensure that their computer is secure. We will under no circumstances be liable for security failures.
- This system is not intended for life support or crime prevention. It is just a supplementary means of conveying information. Aiphone will under no conditions be liable for loss of life or property which occurs while the system is being operated.
- Keep the unit more than 1m (3.3') away from radio or TV set.
- Install the unit on an area that will be accessible for future inspections, repairs, and maintenance.
- If the unit is down or does not operate properly, unplug the power supply or turn off the POWER switches.
- If it is used close to a cellular phone, the unit may malfunction.
- The unit case may become a warm with use, but this is not a unit malfunction.
- When using fluorescent lights to illuminate the screen, the colors may change. This is not a malfunction.
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**How to Install**

**Installation of Door Station**
- There is no space to accommodate the wiring in the back of the unit. If you do not use a 1-gang box, please provide openings to handle exposed wiring in other ways.

**Back Wiring**
1. **Remove the panel**<br>   - Use a flathead screwdriver to pry open the panel without scraping it.

2. **Remove the main unit**<br>   - (loosen the screw)

3. **Attach the mounting frame**

4. **Open the terminal cover and connect the CAT5e/6 cable and option connector.**
   - Close the terminal cover.

5. **Attach the main unit to the mounting frame and put the panel on.**

**Imaging Range and Mounting Location (IX-DA only)**

**Imaging Position Settings**
- The camera angle can be adjusted up or down (-8°, 0°, +15°) using the camera angle adjustment lever. Set it to the optimal level.

**Wall Mounting**
- The indicated range is a guideline that may change depending on the installation environment.

1. **Vertical**
   - Camera angle 0°<br>     - Approx. 1,800 mm (6')<br>     - Approx. 1,200 mm (4')
   - Camera angle +15°<br>     - Approx. 1,800 mm (6')<br>     - Approx. 1,200 mm (4')

2. **Horizontal**
   - Camera angle 0°<br>     - Approx. 700 mm (2')
   - Camera angle +15°<br>     - Approx. 700 mm (2')

When light enters the camera, the monitor screen may flicker brightly or the subject may become dark. Try to prevent strong lighting from entering the camera directly.

**Surface Wiring**
- The indicated range is a guideline that may change depending on the installation environment.

- **Wall Mounting**
  - Mounting height (box center)<br    - IX-DA: 1,500 mm (5')<br    - IX-BA: 1,300 mm (4'3"

**How to Connect**

**Connection Precautions**

**Cable**
- The cable is not included with the product.

**CAT5e/6 cable**
- Use a straight cable when connecting between equipment.
- Do not use a CAT5e/6 cable with a bending angle of less than 25 mm (1") radius. A radius of less than 25 mm (1") could cause a communication failure.

- Do not peel the jacket of the CAT5e/6 cable any more than is necessary.
- Attach the RJ45 modular plugs using either EIA/TIA-568A or 568B.

- Use the LAN tester to confirm conduction before connecting the CAT5e/6 cable.
- The RJ45 connector with cover cannot be connected to CAT5e/6 cable terminals for Master Station or Door Stations. Use cables without covers on the connectors.

- Do not pull the CAT5e/6 cable or apply excessive load.

**Wiring Connection**

- **Insulate and secure unused wires.**

**Contact Input Specifications**
- **Input method** Form C dry contact (N/O or N/C)
- **Input detection method**
- **Fixed detection time** 200 msec or more
- **Contact resistance** Maximum closure resistance: 700 Ω or less
- **Minimum open resistance**: 700 Ω or more
- **Terminal short-circuit current** 10 mA or less
- **Voltage between the terminals** DC 9V or less (between open terminals)

**Relay Output Specifications**
- **Output method** Form C dry contact (N/O or N/C)
- **Output impedance** 600 Ω
- **Output audio level** 300 mVrms (600 Ω when terminated)

**Audio Output Specifications**
- **Output Impedance** 600 Ω
- **Output audio level** 300 mVrms (600 Ω when terminated)